

What is claimed is:

1. A power line communication device for a vehicle, comprising:

an internal electronic control unit connected to a  
5 connection point on a power line, the internal electronic control  
unit communicating with an external electronic control unit by  
a communication signal superimposed on a supply voltage applied  
to the power line; and

an impedance element inserted between the connection point  
10 and an external load.

2. The power line communication device of claim 1, wherein:  
the impedance element comprises a coil.

3. The power line communication device of claim 1, wherein:  
the impedance element comprises a coil and a capacitor  
15 connected with the coil.

4. The power line communication device of claim 1, wherein:  
the communication signal is amplitude-shift-key  
modulated.

20